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	Filing Date		2004-04-09	
	First Named Inventor	Irving W. Wainer et al.		
	Art Unit			
	Examiner Name			
	Attorney Docket Number		NIH0004USP	

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10	R. Moaddel, et al., Immobilized nicotinic receptor stationary phases: going with the flow in high-throughput screening and pharmacological studies, Journal of Pharmaceutical and Biomedical Analysis, (2003), Vol. 30, pps. 1715-1724	<input type="checkbox"/>
11	Jozwiak K., et al., Displacement and Nonlinear Chromatographic Techniques...Chromatographic Stationary Phase, (2002), Anal. Chem., Vol. 74, pps. 4618-4624	<input type="checkbox"/>
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16	Cornell W.D., et al., A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules, (1995), J. Am. Chem. Soc., Vol. 117, pps. 5179-5197	<input type="checkbox"/>
17	Cheng W., et al., Investigating the dielectric effects of channel pore water on the electrostatic barriers of the permeation ion by the finite difference Poisson-Boltzmann method, (1998), Eur Biophys J, Vol. 27, pps. 105-112	<input type="checkbox"/>
18	Wade J.L., et al., Theoretical Description of Nonlinear Chromatography, with Applications to Physicochemical... for Preparative-Scale Separations, (1987), Anal. Chem., Vol. 59, pps. 1286-1295	<input type="checkbox"/>
19	Wainer I.W., et al., Liquid chromatographic studies with immobilized neuronal nicotinic acetylcholine receptor stationary phases: effects of... on drug-receptor interactions, (1999), Journal of Chromatography B Sci Appl, Vol. 724 pps. 65-72	<input type="checkbox"/>
20	Zhang Y., et al., Immobilized Nicotinic Receptor Stationary Phase for On-Line Liquid Chromatographic Determination of Drug-Receptor Affinities, (1998), Analytical Biochemistry, Vol. 264, pps. 22-25	<input type="checkbox"/>

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21	Barrantes F.J., Lipid matters: nicotinic acetylcholine receptor-lipid interactions (Review), (2002), Molecular Membrane Biology, Vol. 19, pps. 277-284	<input type="checkbox"/>
22	Morris G.M., et al., Automated Docking Using a Lamarckian Genetic Algorithm and an Empirical Binding Free Energy Function, (1998), Journal of Computational Chemistry, Vol. 19, No. 14, pps. 1639-1662	<input type="checkbox"/>
23	Hucho F., et al., The emerging three-dimensional structure of a receptor, The nicotinic acetylcholine receptor, (1996), Eur. J. Biochem., Vol. 239, pps. 539-557	<input type="checkbox"/>
24	Elgoyhen A.B., et al., $\alpha 10$: A determinant of nicotinic cholinergic receptor function in mammalian vestibular and cochlear mechanosensory hair cells, (March 13, 2001), Proc Natl Acad Sci USA, Vol. 98, No. 6, pps. 3501-3506	<input type="checkbox"/>
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